What information needs to better inform policy on ongoing structural changes?

The case of farms monitoring systems in Vietnam

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Rapid important changes

- Move of production zone
  - decrease livestock activity in delta, increase in highland
- Specialization and concentration
- Forms of production organization:
  - Household
  - Farm household, big farm
  - Enterprises / Mega-farms
- Rapid introduction of new high technology
  - breed (exotic, F1)
  - industrial feeds
  - organic products
  - Production technique
- Private investments (as well as public)
Drivers of changes

- Public policies and public services
- Integration into international economy, competition
- Urbanization and industrialization
- Natural disasters/Climate change
- Diseases
- Requirement on food safety of consumers
Challenges for Public Authorities

- Projection of trend of changes of production system
- Be informed rapidly, exactly and adequately on current production, particularly in crisis cases (epidemic diseases, food safety,…)
- Identify impact of external shocks (crisis, epidemic) on producers (income, production lost,…)
- Forecast the availability of domestic production
- Develop the strategy, supporting policies

Difficulty: lack of adequate information system
Official data / information systems

GSO: (General Statistical Office)
- Publication of statistic data on year basis
- Big surveys 4 year/time not supply detailed necessary information
- Data not used for making decision in production management

MARD: (Ministry of Agriculture and Rural Development)
- Collect quantitative information, firstly plant area
- Surveys by topic when needed, but at small scale
- Collected information used for making decision in production management, but not sufficient
Proposition : to Design of a New Generation of Farms Monitoring Systems

Objective:

- First of all: respond to the demand of MARD to have timely, adequately the information about real production situation
- Provide information for private sector, market stakeholders, extension agents, producers
- Establish database serving researchers, development of strategy
Approach

**Information need of stakeholders**
- Policymakers
- Market actors
- Extension agent
- Researchers
- Producers

**Kind of collected information**
- Form of production
- Production scale
- Mode of production
- Market relationship
- Economic efficiency
- Reaction to policy

**Means of dissemination**
- Bulletins
- Research papers
- Conferences
- Media

**Collect whose info**
- Producers
- Market actors
- ......
Preliminary Activities for Designing a Livestock Monitoring System

- 2010: National seminar for identifying the needs for a new generation of farms monitoring systems (with MARD)

- 2011: Survey on the structure and changes in mode of livestock production and marketing
Survey on the structure and changes in mode of livestock production and marketing

- MARD have not the information at farm production for planning and developing policies
- Collected Information on 4 forms of livestock organization:
  - Structure of form of production
  - Infrastructure and equipment for raising
  - Structure of breed used
  - Production scale of farm (head, farrows, raising time,....)
  - Used feed
  - Preventive and treatment measure
  - Access to public services (vaccine, treatment, artificial insemination,....)
  - Production and productivity
  - Marketing of livestock products (type of buyer, mode of marketing)
  - Strategy/plan of breeders
Example: Data on pig farms in Vietnam (2011 survey)

Results 1: Changes in livestock farming structure in Dong Nai province

- In 2010, Households (small and professionalized) account for 93% of total pig population.

Source: Hoang Vu Quang et al., 2011 “Modes of production and commercialization of farms in the pig sector in Vietnam”, RUDEC, Direction of Livestock Production of MARD, Hanoi
Result 2: Number of pigs (for meat) per farm per year

Source: Hoang Vu Quang et al., 2011
Result 3: Pig Breeding Sources

Source: Hoang Vu Quang et al., 2011
Preliminary Activities for Designing a Livestock Monitoring System

- 2010: National seminar for identifying the needs for a new generation of farms monitoring systems (with MARD)
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- 2011: Study for:
  - identifying the information need of policymaker and researchers toward dairy farms
Needed information for monitoring the dairy farm

- Race
- Milk productivity
- Production unit cost
- Marketing
- Prevention/treatment of diseases
- Utilization of feed
- Investment
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  - Identifying the information need of policymakers and researchers toward dairy farms
  - Identifying the capacity in providing the information of producers: frequency for providing the information, type of information,…
  - Reviewed the experiences of some models applied in France

Conducted by RUDEC and CIRAD
Financed by MARD (and CIRAD)
Individual Animal Performances Recording Scheme

Farms Monitoring System

Spatial / territorial Monitoring System

Market Information System (MIS)

RUDEC

cirad
FAO TCP for Livestock Monitoring System

- TCP for supporting the setting up of the monitoring system
  - Form of production: diversified and very changed
  - Rapid apply of new technology
  - Diseases, need immediate interventions
  - High competitiveness with imported products
  - Serious lack of information for production direction

- Expected output of TCP
  - Model for organization of monitoring system
  - Policy bulletins for policymakers
  - Database for developing models serving to developing policies
Setting up a Farms Monitoring System

- Regular quantitative surveys (representative sample of farms)
- Quantitative analyses (typology of farms)

Understanding the dynamics of the farms
Prospects for Near Future

- Finalize the methodology according to current needs of Vietnamese authorities, objectives, and available resources
- Viet Nam livestock farms monitoring system as pilot point in the WAW global Initiative?
- Support such initiative in other agricultural sectors
THANK YOU!